RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/550,558
Source: IFW
Date Processed by STIC: 9/8/06

ENTERED

IFWP

RAW SEQUENCE LISTING DATE: 09/08/2006
PATENT APPLICATION: **US/10/550,558** TIME: 13:54:01

Input Set : **A:\10260303.APP**
Output Set: **N:\CRF4\09082006\J550558.raw**

```
 3 <110> APPLICANT: HAMON, CHRISTIAN
 4       KUHN, KARSTEN
 5       THOMPSON, ANDREW
 6       REUSCHLING, DIETER
 7       SCHAEFER, JUERGEN
 9 <120> TITLE OF INVENTION: MASS LABELS
11 <130> FILE REFERENCE: 1020600-000303
13 <140> CURRENT APPLICATION NUMBER: 10/550,558
14 <141> CURRENT FILING DATE: 2005-09-26
16 <150> PRIOR APPLICATION NUMBER: PCT/GB04/001167
17 <151> PRIOR FILING DATE: 2004-03-18
19 <150> PRIOR APPLICATION NUMBER: GB 0306756.8
20 <151> PRIOR FILING DATE: 2003-03-24
22 <160> NUMBER OF SEQ ID NOS: 4
24 <170> SOFTWARE: PatentIn Ver. 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 607
28 <212> TYPE: PRT
29 <213> ORGANISM: Bos taurus
31 <400> SEQUENCE: 1
32 Met Lys Trp Val Thr Phe Ile Ser Leu Leu Leu Leu Phe Ser Ser Ala
33   1               5                  10                  15
35 Tyr Ser Arg Gly Val Phe Arg Arg Asp Thr His Lys Ser Glu Ile Ala
36              20                  25                  30
38 His Arg Phe Lys Asp Leu Gly Glu Glu His Phe Lys Gly Leu Val Leu
39          35                  40                  45
41 Ile Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Asp Glu His Val
42      50                  55                  60
44 Lys Leu Val Asn Glu Leu Thr Glu Phe Ala Lys Thr Cys Val Ala Asp
45  65                  70                  75                  80
47 Glu Ser His Ala Gly Cys Glu Lys Ser Leu His Thr Leu Phe Gly Asp
48                  85                  90                  95
50 Glu Leu Cys Lys Val Ala Ser Leu Arg Glu Thr Tyr Gly Asp Met Ala
51              100                 105                 110
53 Asp Cys Cys Glu Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Ser
54          115                 120                 125
56 His Lys Asp Asp Ser Pro Asp Leu Pro Lys Leu Lys Pro Asp Pro Asn
57      130                 135                 140
59 Thr Leu Cys Asp Glu Phe Lys Ala Asp Glu Lys Lys Phe Trp Gly Lys
60 145                 150                 155                 160
62 Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu
63                 165                 170                 175
65 Leu Leu Tyr Tyr Ala Asn Lys Tyr Asn Gly Val Phe Gln Glu Cys Cys
```

RAW SEQUENCE LISTING DATE: 09/08/2006
PATENT APPLICATION: **US/10/550,558** TIME: 13:54:01

Input Set : **A:\10260303.APP**
Output Set: **N:\CRF4\09082006\J550558.raw**

```
66              180                 185                 190
68 Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Glu Thr Met
69          195                 200                 205
71 Arg Glu Lys Val Leu Ala Ser Ser Ala Arg Gln Arg Leu Arg Cys Ala
72      210                 215                 220
74 Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val Ala
75 225                 230                 235                 240
77 Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Val Glu Val Thr Lys
78                  245                 250                 255
80 Leu Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly Asp
81              260                 265                 270
83 Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys
84          275                 280                 285
86 Asp Asn Gln Asp Thr Ile Ser Ser Lys Leu Lys Glu Cys Cys Asp Lys
87      290                 295                 300
89 Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Lys Asp Ala
90 305                 310                 315                 320
92 Ile Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp Lys
93                  325                 330                 335
95 Asp Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Ala Phe Leu Gly Ser
96              340                 345                 350
98 Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val
99          355                 360                 365
101 Leu Leu Arg Leu Ala Lys Glu Tyr Glu Ala Thr Leu Glu Glu Cys Cys
102     370                 375                 380
104 Ala Lys Asp Asp Pro His Ala Cys Tyr Ser Thr Val Phe Asp Lys Leu
105 385                 390                 395                 400
107 Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys Asp
108                 405                 410                 415
110 Gln Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val
111             420                 425                 430
113 Arg Tyr Thr Arg Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu
114         435                 440                 445
116 Val Ser Arg Ser Leu Gly Lys Val Gly Thr Arg Cys Cys Thr Lys Pro
117     450                 455                 460
119 Glu Ser Glu Arg Met Pro Cys Thr Glu Asp Tyr Leu Ser Leu Ile Leu
120 465                 470                 475                 480
122 Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys Val
123                 485                 490                 495
125 Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser
126             500                 505                 510
128 Ala Leu Thr Pro Asp Glu Thr Tyr Val Pro Lys Ala Phe Asp Glu Lys
129         515                 520                 525
131 Leu Phe Thr Phe His Ala Asp Ile Cys Thr Leu Pro Asp Thr Glu Lys
132     530                 535                 540
134 Gln Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro
135 545                 550                 555                 560
137 Lys Ala Thr Glu Glu Gln Leu Lys Thr Val Met Glu Asn Phe Val Ala
138                 565                 570                 575
```

RAW SEQUENCE LISTING DATE: 09/08/2006
PATENT APPLICATION: US/10/550,558 TIME: 13:54:01

Input Set : A:\10260303.APP
Output Set: N:\CRF4\09082006\J550558.raw

```
140 Phe Val Asp Lys Cys Cys Ala Ala Asp Asp Lys Glu Ala Cys Phe Ala
141             580                 585                 590
143 Val Glu Gly Pro Lys Leu Val Val Ser Thr Gln Thr Ala Leu Ala
144         595                 600                 605
147 <210> SEQ ID NO: 2
148 <211> LENGTH: 16
149 <212> TYPE: PRT
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
154       peptide
156 <220> FEATURE:
157 <221> NAME/KEY: MOD_RES
158 <222> LOCATION: (2)
159 <223> OTHER INFORMATION: dimethylglycine
161 <400> SEQUENCE: 2
W--> 162 Lys Xaa Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg
163   1               5                  10                  15
166 <210> SEQ ID NO: 3
167 <211> LENGTH: 14
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
173       peptide
175 <220> FEATURE:
176 <221> NAME/KEY: MOD_RES
177 <222> LOCATION: (1)
178 <223> OTHER INFORMATION: dimethylglycine
180 <400> SEQUENCE: 3
W--> 181 Xaa Pro Cys Thr Glu Asp Tyr Leu Ser Leu Ile Leu Asn Arg
182   1               5                  10
185 <210> SEQ ID NO: 4
186 <211> LENGTH: 12
187 <212> TYPE: PRT
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
192       peptide
194 <220> FEATURE:
195 <221> NAME/KEY: MOD_RES
196 <222> LOCATION: (1)
197 <223> OTHER INFORMATION: dimethylglycine
199 <220> FEATURE:
200 <221> NAME/KEY: MOD_RES
201 <222> LOCATION: (6)
202 <223> OTHER INFORMATION: dimethylglycine
204 <400> SEQUENCE: 4
W--> 205 Xaa Ala Ala Leu Lys Xaa Ala Trp Ser Val Ala Arg
```

RAW SEQUENCE LISTING DATE: 09/08/2006
PATENT APPLICATION: **US/10/550,558** TIME: 13:54:01

Input Set : **A:\10260303.APP**
Output Set: **N:\CRF4\09082006\J550558.raw**

206 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/08/2006
PATENT APPLICATION: **US/10/550,558** TIME: 13:54:02

Input Set : **A:\10260303.APP**
Output Set: **N:\CRF4\09082006\J550558.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 2
Seq#:3; Xaa Pos. 1
Seq#:4; Xaa Pos. 1,6

VERIFICATION SUMMARY DATE: 09/08/2006
PATENT APPLICATION: **US/10/550,558** TIME: 13:54:02

Input Set : **A:\10260303.APP**
Output Set: **N:\CRF4\09082006\J550558.raw**

L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0